

# History, Government Adds To Staff

Increase in student majors has necessitated the addition of faculty members in Texas A&M's Department of History and Government department, Dr. J. M. Nance, department head, announced.

Dr. Michael Malone, who holds a bachelor of arts degree from Gonzaga, joins the faculty as an assistant professor. He earned a Ph.D. degree from Washington State.

From 1962-65, Malone was a NDEA Fellow at Washington State. He served as a research assistant there last year. He is a member of Phi Alpha Theta, history honor society. His specialty is 20th Century U. S. history.

Malone is author of an article on "Salmon P. Chase: The Chief Justice as Politician" in Washington State Research Studies, December 1964.

Robert D. Craig and Orval G. Clanton have been named instructors in history by Nance.

Craig, a specialist in European history, is working toward his Ph.D. at the University of Utah. A native of Ohio, he holds bachelor and master's degrees from the University of Cincinnati. During the summers of 1964 and 1965, he served as campus coordinator at the University of Innsbruck, Austria, and at Maastricht, France. Craig is a member

of Phi Alpha Theta and several historical associations.

Clanton received degrees in bachelor of science in education and master of science in history from Kansas State College at Pittsburg. He has completed Ph.D. degree requirements in history at the University of Kansas except for the dissertation. His areas of specialization are late 19th and early 20th Century U. S. History and the Far East in recent times.

John T. Duncan, associate history professor, has retired after 20 years of teaching at A&M.

Dr. Kwang H. Ro, Edward D. Wilson, Maynard A. Jordan and Mickey R. Cline were also ap-

pointed for the 1966-67 school year.

Specialist in international relations and Far East governments, Ro will teach in international politics and organization as an assistant professor. The Korea native has four years college teaching experience in Oklahoma.

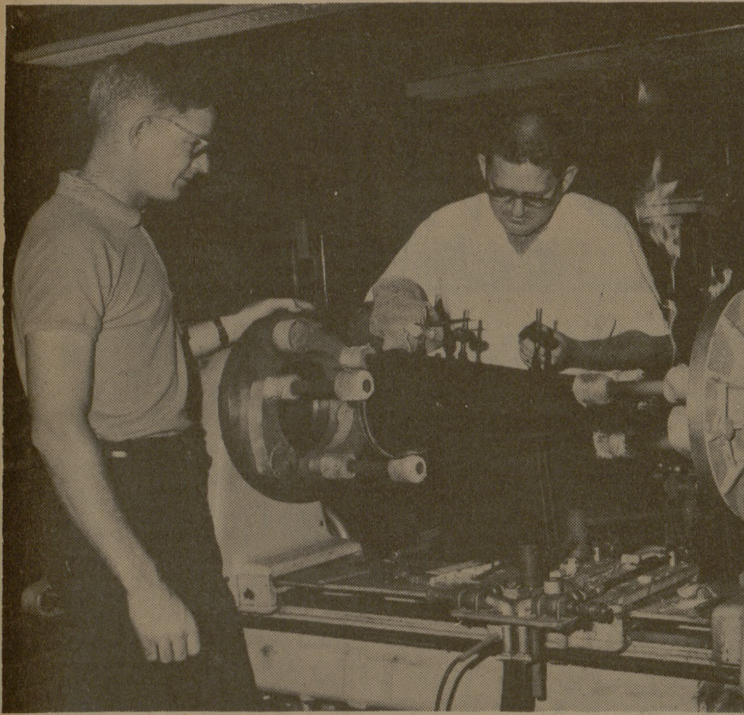
Instructor in comparative government and political theory, Wilson also studied for advance degrees at OU. The Purcell, Okla., native studied at the University of Houston for his bachelor of political science. He has all requirements for a doctorate in government complete at Oklahoma, except the dissertation.

Wilson served in the Army and Air Force during 1946-51.

Jordan, of Akron, Ohio, and Cline, of Concord, N. C., are government instructors.

Jordan studied at Kent State for bachelor and master degrees and specializes in American national, state and local government.

Cline is working on his doctorate at the University of South Carolina, where he received the masters degree this summer. He completed his B.A. in 1961 and taught in the College of General Studies at USC, where he was graduate research assistant in the bureau of governmental research.



**BROTHERS TEAM UP ON GLASS**

Jerry, left, and Jack Shannon put finishing touches on a flow reactor vessel for research equipment in Texas A&M's environmental engineering department. The glass-blowing shop of the chemistry department produces and repairs equipment for research projects across the campus.

## Ag Brothers Man Glass-Blowing Shop

Jack and Jerry Shannon work with temperatures from 2,200 to 2,700 degrees Fahrenheit at Texas A&M.

Artists in glass, the brothers produce and repair condensers, special retorts, complex tubing and various containers in pyrex and quartz for research equipment all over the campus.

"There must be lots of research going on at A&M," remarked the older Shannon, Jack. "We've been swamped the last year." The glass-blowing shop of the Department of Chemistry handles an average of 80 work orders a month.

Production will be just about halved Sept. 1, estimates 39-year-old Jack.

Jerry will join the University of Texas Department of Chemistry.

Lungpower, centrifugal force, variations of the two and special tools plus methane or hydrogen and oxygen flame are ingredients of objects produced in the shop. Raw material is pyrex or quartz tubing in two to 178 millimeter sizes.

"Glass-blowing is just a series of basic steps," remarked Jack.

"Building things requires putting them together."

Heating and cooling temperamental glass are the most critical aspects of the art, chimed in Jerry.

Pyrex works at 1,200 degrees Centigrade, quartz 1,500. Both have low coefficients of expansion.

The most complex object in sight was a shell design liquid divider. Thirteen pieces of glass went into the 12-inch divider's construction.

The older Shannon, a one-time school teacher, said nasal olives are the most unusual glass fabrication he's built. The gadget is used to teach persons with cleft palates to breathe properly.

Microsprayers, tiny vials used for testing cotton defoliants, are among jobs requested by A&M researchers. The shop turns out work for biology, physics, chemical engineering, petroleum engineering and numerous other departments.

"We make things for all the life sciences, besides chemistry," Jack noted. "Ninety-nine per cent of our work is for research people."

Equipment valued at \$30,000 is required in the process. A hand-built glass lathe, serial numbered 34, occupies a central spot in the 30 by 60 foot shop. Lathes, an electric furnace, oven, sanders, grinders, wet saw, bottles of oxygen, hydrogen and methane and stacks of glass are also used.

Normangee natives, the brothers worked into glass-blowing from other fields. After graduating from Sam Houston State in 1950, Jack taught at Moulton a year before going to Dow Chemical where he learned glass-blowing. The father of five went to Oklahoma State after eight years at Dow and came to A&M in 1961.

Single, 26-year-old Jerry studied at Tulsa's Spartan School of Aviation. A licensed aircraft and engine mechanic, he worked at Russell Field in Fort Worth before joining Jack at A&M.

"There's a lot of knuckle-busting in aircraft work," he commented. The private pilot still does it though, while building a Smith Miniplane from the ground up.

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